



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

	· ·	•		
Filed: Inventor Mitch	otion No.: 10/676,437 October 1, 2003 rs: hell Alsup gory William Smaus	Group/Art Unit: Atty. Dkt. No:	Kim, Hong Chong 2185 5500-88800	
Jame Briar	es K. Pickett n D. McMinn	the United States Postal Service with sufficient postage as first class mail in an envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date indicated below.		
	amin T. Sander System and Method for	Rob	ert C. Kowert Printed Name	
	Handling Exceptional Instructions in a Trace Cache Based Processor	Signature	May 15, 2006 Date	
	INFORMATION DISCI	OSURE STATEM	ENT	
P.O. Box	ioner for Patents 1450 ia, VA 22313-1450			
Sir:				
A	applicant requests consideration of X th	ne references listed on t	he attached Form PTO-	
1449 and/	or the additional information identif	ied below in paragraph	13.	
Σ	A copy of each required reference	e listed on the Form P	TO-1449 is enclosed.	
	The references listed on the Form serial no to whic under 35 U.S.C. §120; therefore,	h the captioned applica	tion is seeking priority	
1. T	his Information Disclosure Statement is	submitted:		
a.	within 3 months of the continued prosecution ap		al application other than a (d);	

	b.	within 3 months of the date of entry of the national stage as set forth in § 1.491 in an International application; before the mailing date of a first Office Action on the merits; or before the mailing of a first Office Action after the filing of a request for continued examination under § 1.114. after the events of above paragraph 1a and prior to the mailing date of a final Office Action or Notice of Allowance, and thus: the certification of paragraph 2 below is provided, or a fee of \$180.00 (authorized below). The fee of \$180.00 is waived per the Examiner's comments in the Office Action dated February 14, 2006.
	c.	after the mailing date of a final Office Action or a Notice of Allowance and prior to payment of the issue fee, and thus: the certification of paragraph 2 below is provided and a fee of \$180.00 is enclosed.
2.	It is he	reby certified:
		that each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three (3) months prior to the filing of the Statement; or
		that no item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the person signing the certification after making reasonable inquiry, was known to any individual designated in § 1.56 (c) more than three (3) months prior to the filing of the Statement.
		that each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application and that this communication was not received by any individual designated in § 1.56(c) more than thirty (30) days prior to the filing of the information disclosure statement;
3.		Consideration of the following additional information (including any co-pending or abandoned U.S. applications, prior uses and/or sales, etc.) is requested:
		U.S. Application Serial No. 10/615,506 (5500-79500) U.S. Application Serial No. 10/726,902 (5500-88700) U.S. Application Serial No. 10/755,742 (5500-90300) U.S. Application Serial No. 10/700,033 (5500-91600)
4.	For eac	th non-English language reference listed on the attached Form PTO-1449:
		reference is made to an English language translation submitted herewith, and/or
		reference is made to a foreign patent office search report (in the English language) submitted herewith, and/or

Application Serial No. 10/676,437 - Filed October 1, 2003

		reference is made to an English language translation of a foreign patent office search report submitted herewith, and/or
		reference is made to the concise explanation contained in the specification of the present application at page(s), and/or
		reference is made to the concise explanation set forth below:
5.		Applicant also offers the following comments for the Examiner's consideration:
6.		Also enclosed is a copy of a foreign search report citing these references.
7.		The listed documents were brought to the attention of the Applicant(s) after payment of the issue fee in the captioned case. The documents were cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. Applicant(s) request this Information Disclosure Statement and attached Form PTO-1449 be placed in the file of the captioned application.
8.		Applicant(s) requests that the Information Disclosure Statement and attached Form PTO-1449 and references, which are being filed before the grant of the patent and pursuant to 37 C.F.R. § 1.97(i), be placed in the file of the captioned application.
	If any	required fees are missing, the Commissioner is authorized to charge said fees to
Meyert	tons, He	ood, Kivlin, Kowert & Goetzel, P.C. Deposit Account No. 501505/5500-
22200/	RCK	

Respectfully submitted,

Robert C. Kowert Reg. No. 39,255

Attorney for Applicant(s)

MEYERTONS, HOOD, KIVLIN, KOWERT & GOETZEL, P.C. P. O. Box 398 Austin, Texas 78767 (512) 853-8800

Date: May 15, 2006

PTO/SB/08A (07-05)

Approved for use through 07/31/2006. OMB 0651-0031

.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE nd to a collection of information unless it contains a valid OMB control number. Under the Paperwork Reduction Act of 1995

Complete if Known Substitute for form 1449/PTO Model 10/676,437 Application Number 7052 Confirmation No.: INFORMATION DISCLOSURE October 1, 2003 Filing Date: STATEMENT BY APPLICANT Mitchell Alsup First Named Inventor: (Use as many sheets as necessary) 2185 Art Unit: Hong Chong Kim Examiner Name: 5500-88800 Attorney Docket Number: of 2 Sheet 1

			U. S. PATE	NT DOCUMENTS	
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code (if known)	Publication Date MM- DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		US-2004/0143721	7/04	Pickett, et al.	
		US-7,003,629	2/21/06	Alsup	
		US-6,247,121	6/01	Akkary, et al.	
		US-3,896,419	7/75	Lange, et al.	
-		US-5,381,533	1/10/95	Peleg	,
		US-6,449,714	9/10/02	Sinharoy	
		US-6,339,822	1/15/02	Miller	
		US-6,256,727	7/3/01	McDonald	
		US-6,185,675	2/6/01	Kranich, et al.	
		US-6,345,295	2/02	Beardsley, et al.	
		US-5,930,497	7/99	Cherian, et al.	
		US-6,578,128	6/03	Arsenault, et al.	
		US-6,973,543	12/05	Hughes	
· · · · · · · · · · · · · · · · · · ·		US-6,823,428	11/23/04	Rodriguez, et al.	
		US-			
		US-			

FOREIGN PATENT DOCUMENTS						
Examiner	Cite	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of	Pages, Columns, Lines, Where Relevant Passages	Check if English
Initials*	No.1	Country Code-Number-Kind Code (if known)	WIM-DD-1717	Cited Document	Or Relevant Figures Appear	Translation is attached
	A1	GB 2 3 81101	4/23/03		<u></u>	
	A2	EP 0 957 428	11/17/99			
-						

Examiner	Date Considered	·
Signature		

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to application. ¹Applicant's unique citation designation number (optional).

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number. Substitute for form 1449/PTO Modified Complete if Known 10/676,437 Application Number 7052 Confirmation No.: INFORMATION DISCLOSURE October 1, 2003 Filing Date: STATEMENT BY APPLICANT First Named Inventor: Mitchell Alsup (Use as many sheets as necessary) 2185 Art Unit: Hong Chong Kim Examiner Name: 5500-88800 Attorney Docket Number: of Sheet 2 NON PATENT LITERATURE DOCUMENTS Check if Examiner Cite Include name of the author (in CAPITAL LETTERS), title of article (when appropriate), title of the English No.1 Initials* item (book, magazine, journal, serial, symposium, catalog, etc.), date, (page(s), volume-issue Translation number(s), publisher, city and/or country where published. is attached **A3** Yuan Chou, et al., "Instruction Path Coprocessors," March 2000, pp. 1-24. П Friendly, et al., "Putting the Fill Unit to Work: Dynamic Organizations for A4 Trace Cache Microprocessors," Dept. of Electrical Engineering and Computer Sciences, The Univ. of Michigan, December 1998, 9 pages. **A5** Bryan Black, et al., "Turboscalar: A High Frequency High IPC Microarchitecture," Dept. of Electrical and Computer Engineering, Carnegie Mellon Univ., June 2000, pp. 1-A6 Rotenberg, et al., "Trace Cache: A Low Latency Approach to High Bandwidth Instruction Fetching," April 11, 1996, pp. 1-48. A7 Merten, et al., "An Architectural Framework for Run-Time Optimization," June 2001, pp. 1-43. **A8** Jourdan, et al., "Increasing the Instruction-Level Parallelism through Data-Flow Manipulation," Intel, 11 pages. Hinton, G., et al., "A 0.18-MUM CMOS IA-32 Processor with a 4-GHZ Integer П A9 Execution Unit," IEEE Journal of Solid-State Circuits, Vol. 36, No. 11, November 2001, pages. 1617-1627. Sanjay J. Patel, et al., "replay: A Hardware Framework for Dynamic A10 Optimization," IEEE, Vol. 50, No. 6, June 2001, pp. 590-608. Jacobson, et al., "Instruction Pre-Processing in Trace Processors," IEEE Xplore, A11 January 1999, 6 pages. П Bryan Black, et al., "The Block-Based Trace Cache," IEEE, 1999, pp. 196-207. A12 Rotenberg, et al., "Trace Cache: a Low Latency Approach to High Bandwidth A13 Instruction Fetching," IEEE, 1996, pp. 24-34. Grant Braught, "Clas #21-Assemblers, Labels & Pseudo Instructions," A14 Dickenson College, Fall Semester 2000, 6 pages. Patterson, et al., "Computer Architecture A Quantitative Approach," Second П A15 Edition, Morgan Kaufmann Publishers, Inc., 1996, pp. 271-278 Palmer, et al., "Fido: A Cache That Learns to Fetch," Proceedings of the 17th A16 International Conference on Very Large Data Bases, Barcelona, September 1991, pp. 255-264. Chen et al., "Eviction Based Cache Placement for Storage Caches," USENIX A17 2003 Annual Technical Conference, (13 pages) International Search Report and Written Opinion, PCT/US2004/020721, mailed \Box A18

Examiner	Date Considered	
Signature		1

April 4, 2006, 10 pages.

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to application. ¹Applicant's unique citation designation number (optional).